



LEA Program – Lab Assessment Report

LEA #: _____ Laboratory Name: _____ Date: _____

Engineering Manager: _____

Geotechnical Engineer: _____ Other: _____

Laboratory Manager: _____ Other: _____

[Referenced Standards shown in brackets are ASTM unless otherwise noted]

1. SOILS AND AGGREGATE

Y N Evaluation Records [D3740]

1. ☐ ☐ AMRL Participation #: _____ ☐ SOIL ☐ AGG. ☐ A/C ☐ METALS ☐

Last assessment: ____ / ____ / ____

2. ☐ ☐ PSP Participation #: _____ ☐ SOIL ☐ AGG. ☐ A/C ☐ METALS ☐

Last sample report: ____ / ____ / ____

Y N Equipment

3. ☐ ☐ Scales and balances _____ calib. by: _____ ☐

Calibration / Verification Date: ____ / ____ / ____

4. ☐ ☐ Sample splitters coarse/fine [C702/12] _____ ☐

5. ☐ ☐ Mechanical shakers [C136/12] _____ ☐

6. ☐ ☐ Ovens [D1557/4] _____ ☐

7. ☐ ☐ Sieves _____ calib. by: _____ ☐

Calibration / Verification Date: ____ / ____ / ____

8. ☐ ☐ Compaction Molds [D1557/12] _____ ☐

10. ☐ ☐ Sand equivalent apparatus [D2419/12] _____ ☐

11. ☐ ☐ Liquid limit Device [D4318/12] _____ ☐

12. ☐ ☐ Thermometers [E77/6] _____ ☐

13. ☐ ☐ Straight Edges [D1557/6] _____ ☐

14. ☐ ☐ Calipers [D3740/12] _____ ☐

15. ☐ ☐ Sand cone apparatus [D1556] _____ ☐

16. ☐ ☐ Sand [D1556/12] _____ ☐

17. ☐ ☐ Nuclear density gauges _____ ☐

18. ☐ ☐ Kneading compactor (R value) _____ calib. by: _____ ☐

2. REINFORCING STEEL

Y N Equipment [A370]

1. ☐ ☐ Grips and shims _____ ☐

2. ☐ ☐ Bend fixture and pins _____ ☐

3. ☐ ☐ Extensometer for cable testing _____ ☐

4. ☐ ☐ Grip apparatus for bolt testing _____ ☐

5. ☐ ☐ Bend test apparatus for weld coupons _____ ☐

6. ☐ ☐ Measuring tools for area and elongation _____ ☐

Corrective
Action
Required

Universal Testing Machine [E4/12]**Y N Machine Information:**

- 7.
- ☐
- ☐
- Maker: _____ Identification Number: _____ Capacity: _____/K
- ☐

Y N Calibration Information:

- 8.
- ☐
- ☐
- Calibration / Verification Date: ____/____/____ By: _____
- ☐

3. CONCRETE**Y N Evaluation Records [C1077]**

- 1.
- ☐
- ☐
- CCRL Participation #: _____
- ☐
- MASONRY
- ☐
- AGG.
- ☐
- CONCRETE
- ☐
- REINFORCING
- ☐

Last assessment: ____/____/____

- 2.
- ☐
- ☐
- PSP Participation #: _____
- ☐
- MASONRY
- ☐
- AGG.
- ☐
- CONCRETE
- ☐
- REINFORCING
- ☐

Last sample report: ____/____/____

Y N Procedures / Records

- 3.
- ☐
- ☐
- Specimen identification procedures _____
- ☐

- 4.
- ☐
- ☐
- Specimen initial curing procedures _____
- ☐

- 5.
- ☐
- ☐
- Transportation of specimens to laboratory _____
- ☐

- 6.
- ☐
- ☐
- Cylindrical molds [C470/12] _____
- ☐

Date: ____/____/____

Curing Facilities [C511]**Y N Moist Room:**

- 7.
- ☐
- ☐
- Surfaces of all specimens moist _____
- ☐

- 8.
- ☐
- ☐
- Spray not dripping directly on cylinders _____
- ☐

- 9.
- ☐
- ☐
- Thermostatically controlled
- ☐
- heating
- ☐
- cooling _____
- ☐

- 10.
- ☐
- ☐
- Recording thermometer check/review charts [C511/6] _____ calib. by: _____
- ☐

Calibration / Verification Date: ____/____/____

- 11.
- ☐
- ☐
- Temperature @ 23.0 ± 2.0 °C _____
- ☐

DSA _____ °F/C Ref. _____ °F/C Rec. _____ °F/C

- 12.
- ☐
- ☐
- Humidity not less than 95% _____
- ☐

Y N Water Tanks:

- 13.
- ☐
- ☐
- Water saturated with high calcium hydrated lime _____
- ☐

- 14.
- ☐
- ☐
- Thermostatically controlled
- ☐
- heating
- ☐
- cooling _____
- ☐

- 15.
- ☐
- ☐
- Recording thermometer for each tank [C511/6] _____ calib. by: _____
- ☐

Calibration / Verification Date: ____/____/____

- 16.
- ☐
- ☐
- Recording thermometer for tanks connected with water circulating _____
- ☐

- 17.
- ☐
- ☐
- Temperature @ 23.0 ± 2.0 °C _____
- ☐

DSA _____ °F/C Ref. _____ °F/C Rec. _____ °F/C

Capping Facilities [C617]**Y N Equipment:**

- 18.
- ☐
- ☐
- Capping plate (steel machined) > ½" thick _____
- ☐

- 19.
- ☐
- ☐
- Capping plate 1" greater than specimen _____
- ☐

- 20.
- ☐
- ☐
- Working surface plainness < .002 in 6" _____
- ☐

- 21.
- ☐
- ☐
- Free of gouges etc. > .010 deep or .05 surface area _____
- ☐

22. ☐ ☐ Plate with recess requires ½" of plate below _____ ☐
23. ☐ ☐ Recess in plate ½" or less _____ ☐
24. ☐ ☐ Alignment device perpendicular within 1/8" – 12" _____ ☐
25. ☐ ☐ Melting pot for sulfur mortars _____ ☐
26. ☐ ☐ Exhaust hood _____ ☐
27. ☐ ☐ 2" cube mold with cover plate **[C617/30]** _____ ☐
28. ☐ ☐ Straight edge with feeler gage _____ ☐
29. ☐ ☐ All metal thermometer _____ ☐

Y N Records of Capping Material: [C617]

Trade name or composition _____

30. ☐ ☐ Records compressive strength _____ ☐
Calibration / Verification Date: ____ / ____ / ____ By: _____
31. ☐ ☐ Daily check of planeness of caps _____ ☐
32. ☐ ☐ Un-bonded pad usage records **[C1231]** _____ ☐
33. ☐ ☐ Technician certification _____ ☐
Name: _____

Compression Testing Machine

Y N Machine Information: [C39]

34. ☐ ☐ Maker: _____ Identification Number: _____ Capacity: _____ /K ☐

Y N Calibration Information: [E4/12]

35. ☐ ☐ Calibration / Verification Date: ____ / ____ / ____ By: _____ ☐

Y N Apparatus:

36. ☐ ☐ Sufficient capacity and load rate _____ ☐
37. ☐ ☐ Lubricated spherical bearing block _____ ☐
38. ☐ ☐ Blocks plane to .001" in 6" _____ ☐
39. ☐ ☐ Bottom bearing block 1" thick, new .9 used _____ ☐
40. ☐ ☐ Unbonded caps **[C1231]** _____ ☐
41. ☐ ☐ Measuring tools _____ ☐

Y N Field Equipment

42. ☐ ☐ Slump cones **[C143/12]** _____ calib. by: _____ ☐
Calibration / Verification Date: ____ / ____ / ____
43. ☐ ☐ Air meter – volumetric **[C173/12]** _____ calib. by: _____ ☐
Calibration / Verification Date: ____ / ____ / ____
44. ☐ ☐ Air meter – pressure **[C231/4]** _____ calib. by: _____ ☐
Calibration / Verification Date: ____ / ____ / ____
45. ☐ ☐ Rebar locator (Pachometer/GPR) _____ ☐
46. ☐ ☐ Torque test equipment **[E2428]** _____ calib. by: _____ ☐
Calibration / Verification Date: ____ / ____ / ____
47. ☐ ☐ Proof load test equipment **[E488/12]** _____ calib. by: _____ ☐
Calibration / Verification Date: ____ / ____ / ____

4. MASONRY**Y N Basic Equipment:**

1. ☐ ☐ Core shear test apparatus [CBC 2105A.4] _____ ☐
2. ☐ ☐ Wet saw _____ ☐
3. ☐ ☐ Length change apparatus [C426] _____ ☐
4. ☐ ☐ Cooling Chamber _____ ☐

Measurement**Y N Equipment: [C140]**

5. ☐ ☐ Steel scale to 1/10" _____ ☐
6. ☐ ☐ Calipers _____ ☐
7. ☐ ☐ Cube molds and tampers [C109/30] _____ ☐

Oven:

8. ☐ ☐ Oven of sufficient size [C1093/4] _____ ☐
9. ☐ ☐ Ventilated oven controlled to 100° to 115°C? _____ ☐

Compression Testing Machine**Y N Machine Information: [C39]**

10. ☐ ☐ Maker: _____ Identification Number: _____ Capacity: _____ /K ☐

Y N Calibration Information: [E4/12]

11. ☐ ☐ Calibration / Verification Date: ____ / ____ / ____ By: _____ ☐

Y N Bearing Blocks:

12. ☐ ☐ Spherically seated block Upper: ☐ Lower: ☐ ☐
13. ☐ ☐ Blocks plane to 0.001" in 6"? Upper: ☐ Lower: ☐ ☐
14. ☐ ☐ Bearing face at least 6" in diameter? _____ ☐

Y N Bearing Plates: [C140]

15. ☐ ☐ Single thickness plate _____ ☐
16. ☐ ☐ Adequate thickness _____ ☐
17. ☐ ☐ ¼" greater than the specimen plate dimensions _____ ☐
18. ☐ ☐ Plane to 0.001" in 6" _____ ☐

Y N Capping Plates: [C1552]

19. ☐ ☐ Plate made of steel _____ ☐
20. ☐ ☐ Thickness not less than 1" _____ ☐
21. ☐ ☐ Capping surface level within 1/16"? _____ ☐
22. ☐ ☐ Plane to .003" in 16"? _____ ☐

Y N Casting Plates: [C1552]

23. ☐ ☐ Made of transparent glass _____ ☐
24. ☐ ☐ Thickness not less than ½" _____ ☐
25. ☐ ☐ Plane to .003" in 16" _____ ☐

5. STEEL / WELDING**Y N Field Equipment**

1. ☐ ☐ Bolt tension calibrator _____ calib. by: _____ ☐
Calibration / Verification Date: ____ / ____ / ____
2. ☐ ☐ 200 to 600 ft. / lb. torque wrench [E2428/12] _____ calib. by: _____ ☐
Calibration / Verification Date: ____ / ____ / ____
3. ☐ ☐ 4 to 1 multiplier _____ ☐

4. ☐ ☐ Assortment of high impact sockets _____ ☐
5. ☐ ☐ Thickness gauges _____ ☐
6. ☐ ☐ Rockwell hardness **[E18/12]** _____ calib. by: _____ ☐
 Calibration Date: _____ / _____ / _____
7. ☐ ☐ Brinell hardness **[E10/12]** _____ calib. by: _____ ☐
 Calibration Date: _____ / _____ / _____
8. ☐ ☐ Fillet weld test gauge _____ ☐
9. ☐ ☐ Impact **[E23/12]** _____ ☐
10. ☐ ☐ Dye penetrant test equipment **[E165]** _____ ☐
11. ☐ ☐ Magnetic particle test equipment **[E709/6]** _____ calib. by: _____ ☐
 Calibration / Verification Date: _____ / _____ / _____
12. ☐ ☐ Ultrasonic test equipment **[E164]** _____ calib. by: _____ ☐
 Calibration / Verification Date: _____ / _____ / _____
13. ☐ ☐ Radiographic test equipment _____ ☐
14. ☐ ☐ DC volt / ammeters _____ calib. by: _____ ☐
 Calibration / Verification Date: _____ / _____ / _____

6. REQUIRED REFERENCE MATERIAL

Y N Codes and Standards

- California Administrative Code (CAC); Title 24, Part 1
 1. ☐ ☐ 2007 CAC _____ ☐
 - ☐ ☐ 2010 CAC _____ ☐
- California Building Code (CBC); Title 24, Part 2 – Volumes 1 and 2
 2. ☐ ☐ 2007 CBC _____ ☐
 - ☐ ☐ 2010 CBC _____ ☐
- American Concrete Institute (ACI)
 3. ☐ ☐ 318-08 _____ ☐
 4. ☐ ☐ 530-08 _____ ☐
- American Institute of Steel Construction (AISC)
 5. ☐ ☐ 341-05 _____ ☐
 6. ☐ ☐ 360-05 _____ ☐
- American Welding Society (AWS)
 7. ☐ ☐ Structural Welding Code –Steel D1.1-06 _____ ☐
 8. ☐ ☐ Structural Welding Code –Sheet Steel D1.3 _____ ☐
 9. ☐ ☐ Structural Welding Code –Reinforcing D1.4-05 _____ ☐
- American Society for Nondestructive Testing (ASNT)
 10. ☐ ☐ CP-189-2001 _____ ☐
- Written Practice for Nondestructive Testing _____ ☐
- Annual Book of ASTM Standards:
 12. ☐ ☐ Volume 01.04 Steel; Structural and Reinforcing _____ year: _____ ☐
 13. ☐ ☐ Volume 03.03 Nondestructive Testing _____ year: _____ ☐
 14. ☐ ☐ Volume 04.01 Cement, Lime, and Gypsum _____ year: _____ ☐
 15. ☐ ☐ Volume 04.02 Concrete and Aggregates _____ year: _____ ☐
 16. ☐ ☐ Volume 04.03 Road and Paving Materials _____ year: _____ ☐
 17. ☐ ☐ Volume 04.05 Mortars, Grouts, and Masonry _____ year: _____ ☐
 18. ☐ ☐ Volume 04.08 Soil and Rock _____ year: _____ ☐

LEA # _____ Date ____ / ____ / ____

I, _____, acknowledge the deficiencies specified in this
PRINT NAME OF OFFICIAL
report and agree to send a written response and/or evidence of corrections (e.g. receipts,
photographs...) to the Division of the State Architect (DSA) headquarters office within
approximately 30 days.

Signature of Laboratory Official: _____

LEA Number: _____

DSA Representative: _____
